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**MLR15**

**Code No: A10004**

# **MLR INSTITUTE OF TECHNOLOGY**

(An Autonomous Institution)

I B.Tech I Sem Supplementary Examinations- December-2016

**TECHNICAL ENGLISH**

(Common to ECE & MECH)

Time: 3 hours

Max.Marks :75

Note: 1. This question paper contains two parts A and B.

2. Part A is compulsory which carries 25 marks. Answer all Questions in part A.

3. Part B consists of 5 units. Answer any one full question from each unit. Each question carries 10 Marks and may have a,b,c as sub questions.

## **PART – A**

**[25M]**

1. a) Write about different types of programming languages. [2M]  
b) List the rules of Identifiers [2M]  
c) Explain how to declare and initialize arrays [2M]  
d) What are the applications of self referential structures? [2M]  
e) Write about malloc() and calloc() functions. [2M]
2. a) Distinguish between a variable and constant [3M]  
b) Distinguish between switch statement and else if statement. [3M]  
c) Explain various storage classes in 'C'. [3M]  
d) How to pass pointers as arguments to a function? Explain. [3M]  
e) Write a program to implement linear search. [3M]

## **PART –B**

**[50M]**

3. a) Using switch statement write a program to find the roots of a quadratic equation. [5M]  
b) What is an operator? Give the examples of the various types of arithmetic, relational operators. [5M]

**OR**

4. a) What is the keyword break and continue used for? Support with an example. [5M]  
b) Write a program to read a number to check whether it is a armstrong number or not. [5M]

5. a) Give an example that illustrates call by value and call by reference. [5M]  
b) How to create a user defined function that finds the length of the string. [5M]

**OR**

6. a) Write a function to remove duplicates from an ordered array. For example, if input is :  
a,a,c,d,q,q,r,s,u,w,w,w,w,; then the output should be a,c,d,q,r,s,u,w. [5M]  
b) List the various storage classes and their scopes. [5M]

7. a) Explain any five string manipulation library functions with examples. [5M]  
b) Write a program using pointers to read an array of strings and print in reverse order [5M]

**OR**

8. a) Write functions in C using pointers that get an input string and find the occurrence of the character 'c' in the string and replace it with character 'y'. [5M]  
b) List all Dynamic Memory allocation functions. [5M]

9. What is a structure? Define a structure called salary and another structure called allowance. Use the structure variable allowance in salary structure and write program to read data into the structure variables. [10M]

**OR**

10. a) Define a structure called student with name, register number and age as data members. [5M]  
Write a program to create an array of structures for 5 students. Read data into it and print.  
b) What is self-referential structure? Give an examples. [5M]

11. a) Write a program to read and write 'n' students information like roll no, name marks in 3 subjects using files. [5M]  
b) What are the various File I/O functions explain in brief. [5M]

**OR**

12. a) Two files DATA1 and DATA2 contain sorted list of integers, write a program to produce a third file DATA which hold a single sorted, merged list of these two lists. [5M]  
b) Give the various Positioning functions in C. [5M]

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